

Lowell D Kispert

List of Publications by Year in descending order

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279798

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all docs

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docs citations

61
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Carotenoids: Importance in Daily Life—Insight Gained from EPR and ENDOR. Applied Magnetic Resonance, 2021, 52, 1093-1112.	1.2	9
2	Antioxidant Activity in Supramolecular Carotenoid Complexes Favored by Nonpolar Environment and Disfavored by Hydrogen Bonding. Antioxidants, 2020, 9, 625.	5.1	11
3	The effect of polarity of environment on the antioxidant activity of carotenoids. Chemical Physics Letters, 2020, 761, 138098.	2.6	8
4	Supramolecular Carotenoid Complexes of Enhanced Solubility and Stability—The Way of Bioavailability Improvement. Molecules, 2019, 24, 3947.	3.8	51
5	Photoinduced Charge Separation in Retinoic Acid on TiO ₂ : Comparison of Three Anchoring Modes. Journal of Physical Chemistry C, 2019, 123, 24634-24642.	3.1	8
6	Photo-induced charge separation in hydroxycoumarins on TiO ₂ and F—TiO ₂ . Dalton Transactions, 2019, 48, 10881-10891.	3.3	5
7	Diffuse-Reflectance Infrared Fourier Transform and Electron Nuclear Double Resonance Study of the Carotenoid Bixin Attached to Irradiated TiO ₂ . Journal of Physical Chemistry C, 2018, 122, 19075-19081.	3.1	5
8	Photo-induced electron transfer of carotenoids in mesoporous sieves (MCM-41) and surface modified MCM-41: The role of hydrogen bonds on the electron transfer. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 341, 1-11.	3.9	14
9	Radicals formed from proton loss of carotenoid radical cations: A special form of carotenoid neutral radical occurring in photoprotection. Journal of Photochemistry and Photobiology B: Biology, 2017, 166, 148-157.	3.8	11
10	Photo Protection of Haematococcus pluvialis Algae by Astaxanthin: Unique Properties of Astaxanthin Deduced by EPR, Optical and Electrochemical Studies. Antioxidants, 2017, 6, 80.	5.1	28
11	Water soluble biocompatible vesicles based on polysaccharides and oligosaccharides inclusion complexes for carotenoid delivery. Carbohydrate Polymers, 2015, 128, 207-219.	10.2	56
12	Chemistry of carotenoid neutral radicals. Archives of Biochemistry and Biophysics, 2015, 572, 167-174.	3.0	13
13	Hydrogen Bond Formation between the Carotenoid Canthaxanthin and the Silanol Group on MCM-41 Surface. Journal of Physical Chemistry B, 2015, 119, 10488-10495.	2.6	8
14	DFT and ENDOR Study of Bixin Radical Cations and Neutral Radicals on Silica—Alumina. Journal of Physical Chemistry B, 2015, 119, 7170-7179.	2.6	8
15	Electrochemical Study of Astaxanthin and Astaxanthin <i>n</i> -Octanoic Monoester and Diester: Tendency to Form Radicals. Journal of Physical Chemistry B, 2014, 118, 2331-2339.	2.6	24
16	EPR Study of the Astaxanthin <i>n</i> -Octanoic Acid Monoester and Diester Radicals on Silica—Alumina. Journal of Physical Chemistry B, 2012, 116, 13200-13210.	2.6	15
17	Carotenoid Radicals: Cryptochemistry of Natural Colorants. Chemistry Letters, 2010, 39, 148-155.	1.3	23
18	Free Radical Formation in Novel Carotenoid Metal Ion Complexes of Astaxanthin. Journal of Physical Chemistry B, 2010, 114, 16968-16977.	2.6	59

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19	Pulsed EPR and DFT Characterization of Radicals Produced by Photo-Oxidation of Zeaxanthin and Violaxanthin on Silica-Alumina. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1806-1819.	2.6	27
20	Pulsed Electron Nuclear Double Resonance Studies of Carotenoid Oxidation in Cu(II)-Substituted MCM-41 Molecular Sieves. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5449-5457.	2.6	14
21	Persistent spectral hole burning in europium-doped sodium tellurite glass. <i>Applied Physics Letters</i> , 2005, 87, 091107.	3.3	9
22	Isomerization of Carotenoids in the Presence of MCM-41 Molecular Sieves: EPR and HPLC Studies. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9456-9462.	2.6	20
23	Multifrequency High-Field Electron Paramagnetic Resonance Characterization of the Peroxyl Radical Location in Horse Heart Myoglobin Oxidized by H ₂ O ₂ . <i>Journal of Physical Chemistry B</i> , 2004, 108, 11820-11826.	2.6	4
24	Carotenoid radical cations and dications: EPR, optical, and electrochemical studies. <i>Archives of Biochemistry and Biophysics</i> , 2004, 430, 49-60.	3.0	32
25	Reaction of Carotenoids and Ferric Chloride: Equilibria, Isomerization, and Products. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5333-5338.	2.6	74
26	Deprotonation of Carotenoid Radical Cation and Formation of a Didehydrodimer. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13237-13240.	2.6	26
27	A Spectroscopic Study of Hexadecylquinolinium Tricyanoquinodimethanide as a Monolayer and in Bulk. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10374-10381.	2.6	25
28	Electron Transfer of Carotenoids Imbedded in MCM-41 and Ti-MCM-41: EPR, ENDOR, and UV-Vis Studies. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10808-10815.	2.6	34
29	Carotenoids in Sol-Gels: Incorporation, Stability, and Sensitivity to Oxidant and Acid. <i>Chemistry of Materials</i> , 2001, 13, 227-231.	6.7	20
30	Electrochemical and Spectroelectrochemical Study of 7,7-Diapo-(7E,7Z)-diphenylcarotene. <i>Journal of Physical Chemistry B</i> , 2001, 105, 975-980.	2.6	5
31	Detection of Anisotropic Hyperfine Components of Chemically Prepared Carotenoid Radical Cations: 1D and 2D ESEEM and Pulsed ENDOR Study. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8361-8368.	2.6	21
32	Single Two-Electron Transfers vs Successive One-Electron Transfers in Polyconjugated Systems Illustrated by the Electrochemical Oxidation and Reduction of Carotenoids. <i>Journal of the American Chemical Society</i> , 2001, 123, 6669-6677.	13.7	133
33	Dendralene-Type TTF Vinylogs Containing a 1,3-Diselenole Ring. <i>Journal of Organic Chemistry</i> , 2001, 66, 7757-7764.	3.2	35
34	Photocurrent generated on a carotenoid-sensitized TiO ₂ nanocrystalline mesoporous electrode. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000, 130, 49-56.	3.9	95
35	Effects of Polyene Chain Length and Acceptor Substituents on the Stability of Carotenoid Radical Cations. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5651-5656.	2.6	31
36	Photovoltaic response of carotenoid-sensitized electrode in aqueous solution: ITO coated with a mixture of TiO ₂ nanoparticles, carotenoid, and polyvinylcarbazole. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999, , 1225-1230.	0.9	14

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37	EPR and AM1 Study of the Structure of the Radical Anion of Î²-ionone. Journal of Physical Chemistry A, 1999, 103, 1414-1418.	2.5	8
38	Surface Modification of TiO2 Nanoparticles with Carotenoids. EPR Study. Journal of Physical Chemistry B, 1999, 103, 4672-4677.	2.6	37
39	Electrochemical and Optical Study of Carotenoids in TX100 Micelles:Â Electron Transfer and a Large Blue Shift. Journal of Physical Chemistry B, 1999, 103, 9038-9043.	2.6	22
40	Effect of Electrolytes and Temperature on Dications and Radical Cations of Carotenoids:â€% Electrochemical, Optical Absorption, and High-Performance Liquid Chromatography Studies. Journal of Physical Chemistry B, 1999, 103, 10524-10531.	2.6	15
41	95âˆˆ670 GHz EPR Studies of Canthaxanthin Radical Cation Stabilized on a SilicaâˆˆAlumina Surface. Journal of Physical Chemistry B, 1999, 103, 5782-5786.	2.6	33
42	Semiconductor Photocatalysis:Â Photodegradation and TransâˆˆCis Photoisomerization of Carotenoids. Journal of Physical Chemistry B, 1998, 102, 3897-3901.	2.6	23
43	Photoinduced Electron Transfer between Carotenoids and Solvent Molecules. Journal of Physical Chemistry B, 1997, 101, 7858-7862.	2.6	30
44	Photoactivated Ferric Chloride Oxidation of Carotenoids by Near-UV to Visible Light. Journal of Physical Chemistry B, 1997, 101, 7844-7849.	2.6	35
45	Electrochemical Quartz Crystal Microbalance, Voltammetry, Spectroelectrochemical, and Microscopic Studies of Adsorption Behavior for (7E,7â€Z)-Diphenyl-7,7â€-diapocarotene Electrochemical Oxidation Product. Journal of Physical Chemistry B, 1997, 101, 2038-2045.	2.6	12
46	The Effect of Electron-Donating and Electron-Withdrawing Substituents on1H-and13C-NMR chemical shifts of novel 7?-aryl-substituted 7?-apo-?-carotenes. Helvetica Chimica Acta, 1993, 76, 1928-1938.	1.6	8
47	Synthesis and NMR-Spectroscopic Structure Determination of Novel 7,7?-Diphenyl-7,7?-diapocarotenoids. Helvetica Chimica Acta, 1993, 76, 1939-1948.	1.6	14
48	Solvent and temperature dependence of the lowest excited singlet state lifetime of allâ€transâ€7â€TMâ€dicyanoâ€7â€TMâ€apoâ€Î²â€carotene. Journal of Chemical Physics, 1991, 95, 7212-7218.	3.0	33
49	Temperature dependence of the lowest excited singletâ€state lifetime of allâ€transâ€Î²â€carotene and fully deuterated allâ€transâ€Î²â€carotene. Journal of Chemical Physics, 1989, 91, 6691-6697.	3.0	81
50	EPR Study of Cation Radicals of Short Chain Polyenes. Israel Journal of Chemistry, 1989, 29, 33-38.	2.3	2
51	Hydrogen bonding and cation radical formation of methyl 4â€(N,Nâ€dimethylamino)phenyl carbamate, DMAPCMe. Journal of Chemical Physics, 1987, 87, 4967-4971.	3.0	12
52	Epr studies of radicals in conducting solutions, oligomer crystals and conducting polymers. Reviews of Chemical Intermediates, 1986, 7, 45-70.	1.1	2
53	EPR study of acceptor doped pâ€terphenyl crystals: The oriented radical cation precursor for a	3.0	15
54	Cross-polarization and magic angle sample spinning NMR of model organic compounds with extremely long 1H T1's. Journal of Polymer Science, Polymer Letters Edition, 1984, 22, 519-522.	0.4	12

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55	Electron Spin Echo Studies of Donor-Doped Poly(P-Phenylene) and Its Oligomers. <i>Molecular Crystals and Liquid Crystals</i> , 1984, 107, 81-90.	0.8	5
56	Dependence of Radical Anion Stability on Crystal Structure. <i>Molecular Crystals and Liquid Crystals</i> , 1984, 107, 75-80.	0.8	2
57	An EPR study of the dichlorofluoromethyl radical and other chlorinated radicals in irradiated dichlorofluoroacetamide single crystals. <i>Journal of Chemical Physics</i> , 1981, 74, 246-249.	3.0	7
58	Electron Spin Resonance Studies of Fluorine-Containing Radicals in Single Organic Crystals. <i>ACS Symposium Series</i> , 1978, , 349-385.	0.5	5
59	Electron-electron double resonance of irradiated dimethylmalonic acid, α -aminoisobutyric acid, and L-alanine single crystals: The role of methyl substituents. <i>Journal of Chemical Physics</i> , 1973, 58, 2164-2176.	3.0	22
60	ESR Study of the Chlorofluoroacetamide Radical in Irradiated Dichlorofluoroacetamide Single Crystals. <i>Journal of Chemical Physics</i> , 1972, 56, 2623-2631.	3.0	22
61	ENDOR of biradicals. <i>Molecular Physics</i> , 1969, 17, 457-471.	1.7	44